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Catella PACS 5.0 Web Viewer User Manual

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Chapter 1: Getting Started

1.1. Overview

The web-based CATELLA PACS 5.0 Web Viewer is the ideal DICOM viewing and image manipulation tool used by radiologists and physicians to access the studies from any remote computer connected to the Internet via a secure, password-protected login. It can be easily configured in any PACS environment.

1.2. Features

- Accessible anytime, anywhere, via a PC with an Internet connection.
- Fully compliant with the ACR-NEMA DICOM 3.0 standard
- Individual upgrading of a PC is eliminated when a new version or upgrade of software is released.
- More user-friendly

1.3. USE

Used in small to medium sized medical imaging centers or hospitals for diagnostic viewing and manipulating medical images.

Chapter 2: Software Setup

This chapter describes how to logon to the CATELLA PACS 5.0 Web viewer and also explains the menus available in the CATELLA PACS 5.0 Web Viewer Interface.

2.1. Login

To log into the software,

1. Open the Internet Explorer and type in the default URL (Uniform Resource Locator) of the CATELLA PACS 5.0 Web Viewer.
2. A **Login Screen** as shown below opens.

The screenshot shows a web-based login interface. At the top is a title bar labeled 'Login'. Below it are two text input fields, the first labeled 'Username' and the second labeled 'Password'. A dark button labeled 'Login' is positioned below the password field. In the bottom left corner of the window, the text 'v2.2.1.72' is visible.

Enter the username and the password, and click on the **Login button**.

Please note:

The Administrator is the default user with the highest privilege to configure the CATELLA PACS 5.0 Web Viewer Application.

You can log into the application using any of the user names that the administrator have added using your Server software. [Refer to the Catella PACS 5.0 Server Manual for details.](#)



2.2. Main Screen

This section gives you the overview of all the key elements available in the **CATELLA PACS 5.0 Web Viewer Main Screen** shown below.

Button	Click To:
	Review all the Images and Reports corresponding to the selected studies.
	View the report of the selected study. Please note that you can view reports only for studies queried from the local archive.
	Load DICOM files to the CATELLA PACS 5.0 Web VIEWER.
	Load DICOMDIR to the CATELLA PACS 5.0 Web VIEWER.
	Query and Retrieve the required study details from the default query server based on customizable search criteria.
	Query study details from the default query server based on predefined Search Filters.
	Displays the queried study details.
	Review the image corresponding to the selected study.
	Carryout various functionality settings of the application like Password, Modality, Annotation, and Filter Settings.



Chapter 3: Query and Load DICOM Files

CATELLA PACS 5.0 Web Viewer offers you the functionality to query and retrieve the Study details that you want from the default query server based on customizable search criteria.

3.1 Query from the DICOM Server

To query Study Details using the advanced search option

Click on **Advanced Search** button and specify any one of the search criteria like patient name, ID, sex, modality, study date, accession, and filter in the corresponding fields. Then, click on the Search button.

The nearest match retrieved from the default query server assigned for the user will be displayed in the Study Details Display Region as shown below. Double clicking the desired study detail will enable you to view the corresponding images and to perform various image review operations.

Note: Use the Clear button to clear all the queried studies. The administrator assigns the default query server using the server application.

The screenshot displays the Catella 5.0 Web Viewer interface. On the left, the 'Advanced Search' section is active, showing search criteria for Name, ID, Sex, Study Date, and Modality. The 'Search' button is highlighted. The main area displays a table of study details with columns: Patient ID, First Name, Age, Sex, Study Date, Study Desc, MOD, Reporting, Accession #, and Images. The table lists several studies, including those for Mr. KRISHNAH, MJEEVARATHINAM, AMARESH, VEIKATESH, SABAHNA, RAVANAMMA, SUBBAIAH, DEVAI, SIICHAHA, B/O MAHALAKSHMI, GANGAMMA, KRISHNAILP, CHANDRA, AMEEN SHAREEF, RAVI KUMAR, BHAGYAMMA, and BASAVA HAYAKA. The bottom section shows a 'Series Description' table with columns: MOD, Series Date, Series Time, and Series UID. The 'No data to display' message is visible in the bottom right corner.

Patient ID	First Name	Age	Sex	Study Date	Study Desc	MOD	Reporting	Accession #	Images
130620081718	15				<Enter study	MR	PENDING		1
141020081603	sadf				<Enter study	SC	PENDING		4
120620081136	dsfds				<Enter study	SC	PENDING		5
0000001719	Mr.KRISHNAH,45Yrs.		M	6/4/2001		CT	PENDING		100
02195	MJEEVARATHINAM	055Y	F	7/15/2002	RENALA AINGIO	CT	PENDING		44
1048/2007	AMARESH 16Y/M	2122	M	4/24/2007	PLAIN	CT	PENDING		12
5560/07	VEIKATESH.S.32Y/M		M	5/10/2007	CHEST	CR	PENDING	200705101335	1
5740/07	SABAHNA 55Y/M		M	5/10/2007	CHEST	CR	PENDING	200705101515	1
5707/07	RAVANAMMA 35Y/F		F	5/11/2007	CHEST	CR	PENDING	200705111216	1
5793/07	SUBBAIAH 65Y/M		M	5/11/2007	SPIINE	CR	PENDING	200705111309	1
ID HO.BH 392	DEVAI 28Y/F		F	5/11/2007	CHEST	CR	PENDING	200705111129	1
ID HO.2303	SIICHAHA 9 MONTH/F		F	5/11/2007	CHEST	CR	PENDING	200705111214	1
ID HO.2297	B/O MAHALAKSHMI		F	5/11/2007	CHEST	CR	PENDING	200705111209	1
5760/07	GANGAMMA 48Y/F		F	5/11/2007	CHEST	CR	PENDING	200705111317	1
ID HO.BH 376	KRISHNAILP 61Y/M		M	5/11/2007	CHEST	CR	PENDING	200705110937	1
ID HO.752	CHANDRA 45Y/F		F	5/11/2007	SPIINE	CR	PENDING	200705111306	1
ID HO.2308	AMEEN SHAREEF 4Y/M		M	5/11/2007	Lower Extremities	CR	PENDING	200705111332	1
ID HO.2313	RAVI KUMAR 13Y/M		M	5/11/2007	CHEST	CR	PENDING	200705111539	1
9538/06	BHAGYAMMA 32Y/F		F	5/11/2007	CHEST	CR	PENDING	200705111120	1
5785/07	BASAVA HAYAKA		M	5/11/2007	CHEST	CR	PENDING	200705111548	1

To query the study details based on predefined filters,

Click on the **Predefined Filters** button. You will notice that all the filters that you have defined using the Filter Settings will be listed out as shown in the figure given below. [Refer the Filter Settings on page 44 to define, edit or delete a search filter.](#)



Now, click on the desired filter name. All the study details matching the selected filter criteria will be displayed on your screen.

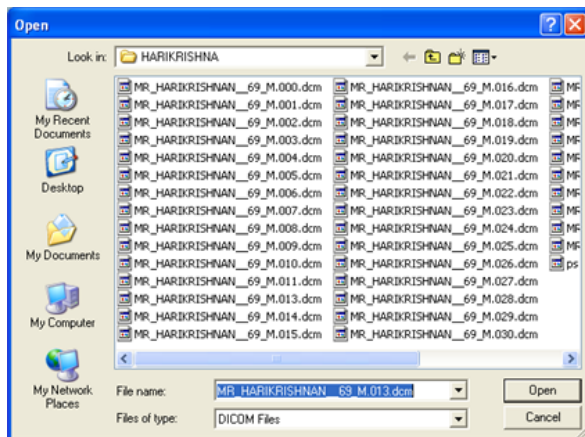
The screenshot shows the Catella 5.0 Web Viewer interface. On the left is a sidebar with buttons for 'Load Files', 'DICOM Dir', 'Open Study', and 'View Report'. Below these are 'Predefined Filters' (with an 'All' button) and an 'Advanced Search' section. The main area displays a table of patient studies with columns: Patient ID, First Name, Age, Sex, Study Date, Study Desc, MOD, Reporting, Accession #, Images, and S. The table contains 15 rows of data. Below the table is a section for 'Series Description', 'MOD', 'Series Date', 'Series Time', and 'Series UID', which currently shows '<No data to display>'. At the top right of the main area are tabs for 'Archive', 'Image Viewer', and 'Print Composer', along with a 'Preferences' button.

Patient ID	First Name	Age	Sex	Study Date	Study Desc	MOD	Reporting	Accession #	Images	S
FUJ000001	TANAKA HANAKO		F			CR	PENDING	FUJ05701	1	
401/01/CHE1	Sathish	059Y	F	3/2/2001		MR	REPORTED		3	
0000001719	Mr.KRISHNAN.45Yrs.		M	6/4/2001		CT	REPORTED		32	
02195	MJEEVARATHINAM	055Y	F	7/15/2002	RENALA ANGIO	CT	REPORTED		20	
15	JOGLEKAR	037Y	M	5/13/2003	PELVIC	CT	PENDING		57	
124	V JOGLEKAR M /37	037Y	M	5/26/2003	Monday, May 26, 2003	CT	PENDING		71	
123	V V JOGLEKAR M /37	044Y	M	5/26/2003	Monday, May 26, 2003	CT	FINALIZED		71	
12474	ASKIN IRVIN	081Y	M	12/23/2005	CT AORTA RUNOFF	CT	FINALIZED	DO RTR CT M		
A0905003	Patient2			5/9/2008	Upper Extremities	CR	PENDING		1	
PUCH-0000005	SURIYA SIVAKUMAR		M	5/27/2008	LEFT SHOULDER	CR	PENDING		1	
300520081030	EDGE web test	022Y	M	5/30/2008	<Enter study description>	CT	PENDING	76893476	2	
12B	RAKESH	35Y	M	6/4/2008	Chest	CR	PENDING		1	

3.2. Load DICOM File

If you wish to review the image corresponding to a specific study, you can load that DICOM File

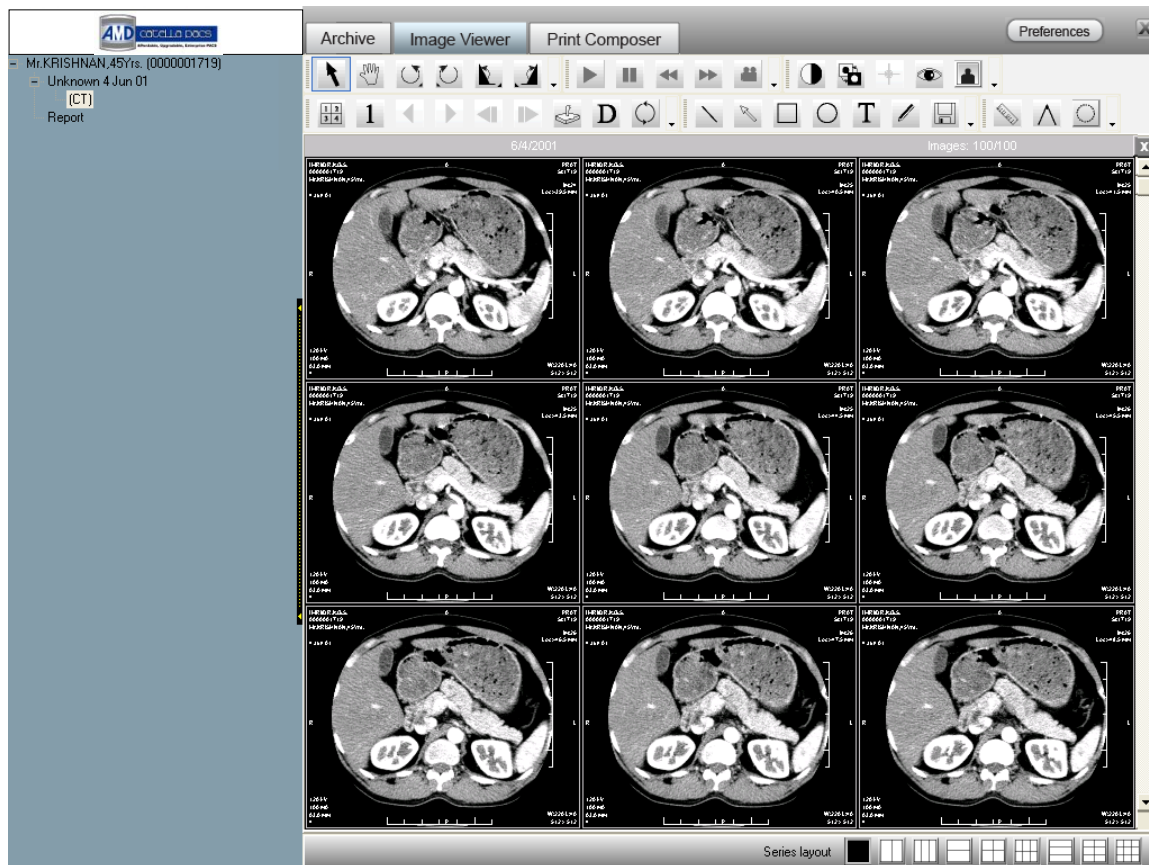
onto the CATELLA PACS 5.0 Web Viewer by clicking on the **Load Files** button in your **CATELLA Archival Screen**. Next, an **Open Dialog** pops up on your screen. Locate the DICOM file that you wish to load and click on the **OK** button.





The selected file will open in the **Image Viewer Window** as shown below. Double click on the image and carry out various annotations using the available annotation tools.

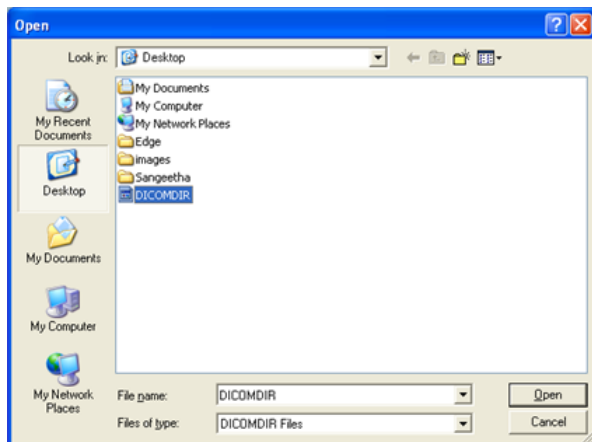
Refer image review section in page 15 for details.



3.3. Load DICOMDIR

To load a DICOMDIR to the CATELLA PACS 5.0 Web Viewer Application, click on the

 button and select the DICOMDIR File, which you would like to load from an **Open Dialog** as shown below.



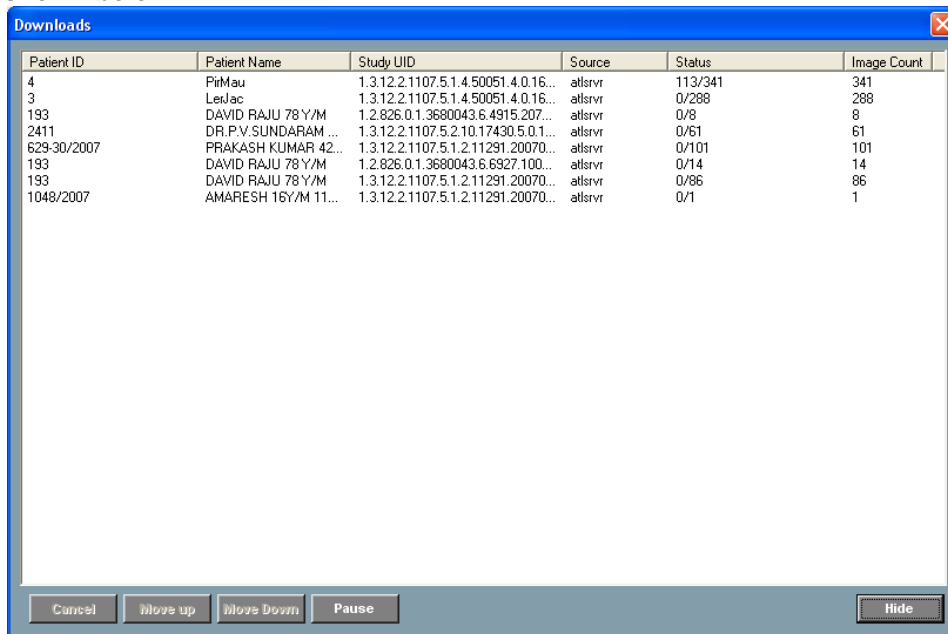


You will notice that all the images corresponding to the selected DICOMDIR will be displayed on your **Image Viewer Window**. To mark annotations on the image, double click on the required image and mark annotations using the annotation toolbar and Pop Up Options.

3.4 Download Studies

This option of the **CATELLA PACS 5.0 Web Viewer** helps you to download all the images corresponding to the selected studies in advance, thereby reducing the time taken to load the images during the image review process.

To do this, select the studies whose image you wish to download from the Archival Screen and right click and choose Download from the Pop up. A Downloads Dialog opens as shown below.



Use the Move UP and Move Down buttons to increase or decrease the process priority of the selected study.

Clicking on the Pause button pauses the download process.

Click on the Hide button to hide the Download Window. Right clicking the Study list Area of the Archival Screen and selecting View Downloads helps you to view the download window.

Chapter 4: Image Viewer

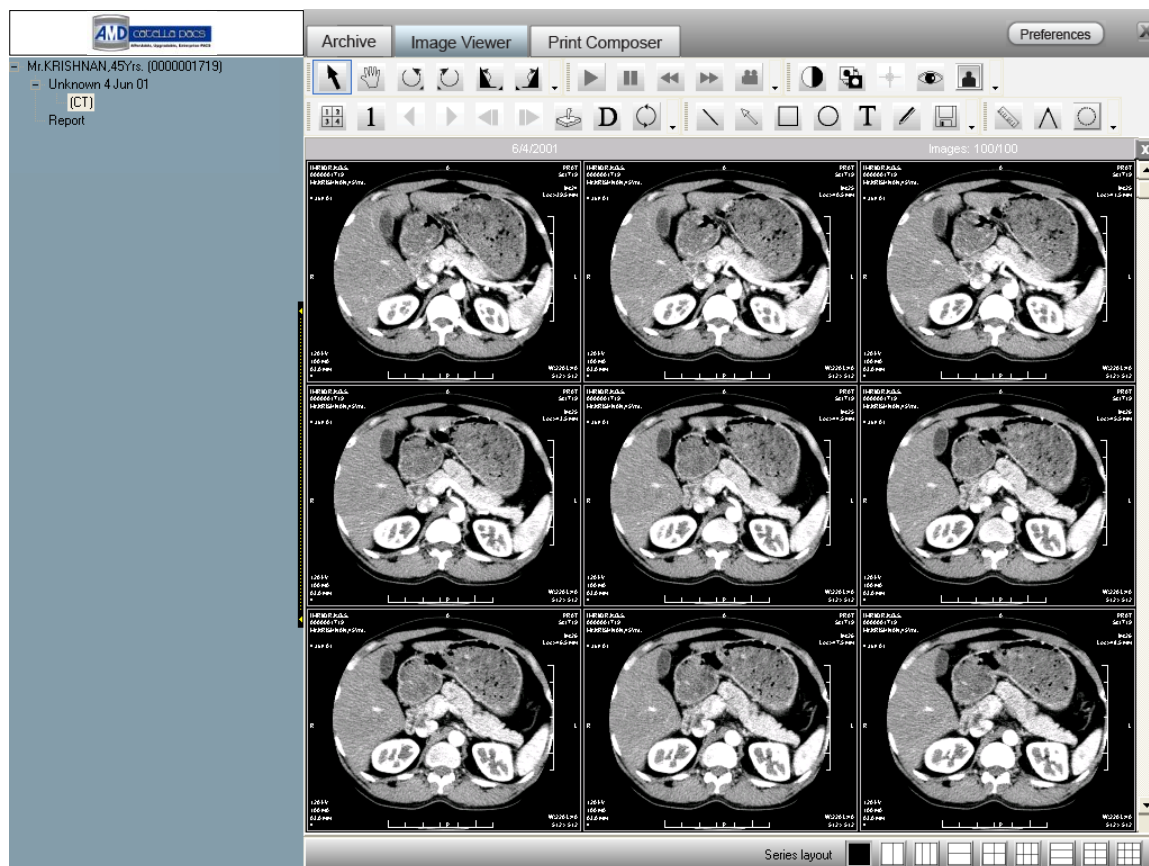
CATELLA PACS 5.0 Web Viewer enables you to perform various annotations (markups) on the image using the annotation tools. This chapter describes the annotation tools and how to use them.

4.1. Image Viewer Overview

To annotate the image

1. Double click the desired study from the queried list of studies or select the desired study and click **Open Study Button**. An **Image Review Screen** opens displaying the images in the default series layout.

Refer General Settings to set the default series layout.































Now, to carryout various annotations on the image double click on the desired frame of the image series and make the annotations on the image using the annotation toolbar.

Please note: The annotation tools of the Image Review Screen are enabled only on selecting the image.








The following table gives a quick overview of all the annotation tools available in CATELLA PACS 5.0 Web Viewer.

Icon	Option	Click To:
Edit Options		
	Arrow	Get the mouse pointer or to deselect the selected annotation tool
	Pan and Zoom	Zoom and pan the image.
	Rotate Left	Rotate the image to the left.
	Rotate Right	Rotate the image to the right.
	Flip Horizontally	Flip the image horizontally.
	Flip Vertically	Flip the image vertically.
	Reset	Reset the annotations (zoom, pan, rotate and flip operations) performed on the image.
Display Options		
	Window Leveling	View the window width and level.



	Invert	View negatives of the image
	Hounsfield	View Hounsfield value of the image.
	Lens Mode	Zoom in specific region of the image
	Adjust Image	Adjust sharpness, enhancement, window width and level of the image.
Annotation Options		
	Line	Draw a line on the image.
	Arrow	Draw an arrow on the image.
	Rectangle	Draw a rectangle on the image
	Circle	Draw a circle on the image.
	Text	Type text on the image.
	Free Hand Tool	Draw free hand polygonal shape.
	Save	Save annotations.
Navigation Options		
	Increase Image per page	Increase the number of images displayed per page.
	Decrease image per page	Decrease the number of images displayed per page.
	Previous Page	View the previous page.
	Next Page	View the next page.
	First Page	Move to the First page.
	Last Page	Move to the Last page.
	Export Images	Export the selected images to a desired storage location.
	Display/Hide Overlays	Display/Hide the overlays on the image.
Multiframe Playback Options		
	Play a DICOM Avi	Play the DICOM AVI. Please note to increase the playing speed of the AVI press the "+" key in the keyboard. Use the "-" key to reduce the playing speed of the AVI
	Pause playing Avi	Pause the AVI.
	Previous Frame	View the previous frame of the avi.
	Next Frame	View the next frame of the avi.
	Play Frames	Play all the frames of the selected series in a loop
Measurement Options		
	Linear Measurement	Carry out linear measurements on the image.
	Angular Measurement	Find angle between two different points on the image.
	Elliptical Area Measurement	Read the area of the Elliptical Region of Interest (ROI) of the image.
	Rectangular Area Measurement	Read the area of the Rectangular Region of Interest (ROI) of the image.



	Cobb Angle	Angle formed between a line drawn parallel to the superior endplate of one vertebra above the fracture and a line drawn parallel to the inferior endplate of the vertebra one level below the fracture.
	Line with Midpoint	Draws a line with the mid-point highlighted.
	Arc	Creates an arc and indicates the arc degrees and the length of line between the start and stop point.
	Horizon Angle	Single line will be made like a line but when user releases at the end point the line displays across the entire film. The angle that is displayed is the degrees of this line to a horizontal line.
	Horizon Orthogonal Angle	Start with using the same process as a horizon line. User picks a point in the line and pulls up or down from this point to create a perpendicular line. Both the horizon angle and length of the perpendicular line are displayed. Holding the end of the perpendicular line will allow the "T" to be moved or rotated.
	Left and Right Markers	Places "L" and "R" labels on the image. First label is L and second label is R.
	Labels	Press the down area next to this button to display the choices: Cervical (C1-C7), Thoracic (T1-T12), Lumbar (L1-L7), Sacral (S1-S5). Select the label you wish to start with in any series and then click on the point you wish labeled. The next click will place the next sequential label on the film. For example, select S2 for the first label and the next label will be S3.

Copying and Moving Annotations

To copy an annotation, click on the annotation, press Control C to copy,

To move an annotation, click on the annotation, move the pointer to the new location and then press Control V to move.

4.1.1. Deselect an Annotation Tool

To deselect the selected annotation tool or to activate the mouse pointer

Click  button or Right click on the **Image Review Region** and select **Mode > Select** or Press the Esc **Key** in the keyboard.

4.1.2. Zoom and Pan Image

To zoom and pan the whole image

Click  button or Right click on the **Image Review Region** and select **Mode> Pan/Zoom** from the **Pop Up**.

Left click and drag the mouse over the image zoom in or out the image. To pan the image, right click and drag the mouse.

To zoom a specific region of an image

Right click the **Image Review Region** and select **Mode> Lens**. Left click and drag the mouse over the image.






Refer Modality Settings to set the zoom window size and zoom percentage.

4.1.3. Rotate, Flip and Invert Image



You can use the Rotate & Flip options to flip or mirror the entire image and to rotate the image according to the number of degrees specified. You can also view the negatives of the image using the Invert option

The table listed below gives a quick overview of the procedure to invert, rotate and flip the images.


To:	Do this:
Rotate Image to Left by 90 Degrees or anticlockwise direction	Click  button --or- Right click the Image Review Region and select Processing> Rotate Left option from the Pop Up. -or- Click Ctrl+< keys in the keyboard.
Rotate Image to Right by 90 Degrees or clockwise direction	Click  Button. -or- Right click the Image Review Region and select Processing>Rotate Right option from the Pop Up. -or- Click Ctrl+ -> keys in the keyboard.
Flip Image Vertically	Click  Button. -or- Right click the Image Review Region and select Processing>Flip Vertically option from the Pop Up. -or- Click shift + < keys in the keyboard.
Flip Image Horizontally	Click  button. -or- Right click the Image Review Region and select Processing>Flip Horizontally from the Pop Up. -or- Click shift + -> keys in the keyboard.
Invert the RGB value of the image or view the negatives of the image	Click  button. -or- Right click the Image Review Region and select Processing>Invert Image from the Pop Up. -or- Click 'I key' in the keyboard.

4.1.4. Reset Level and Orientation of image

This option is used to reset the level and orientation of the image after zooming, rotating or flipping the image.

To reset the image,



click the  button **or right click the image and select Reset Level and Orientation option or press the F2 Key in the keyboard.**

4.1.5. Change Window width and level

To change the window width and level

Click  button.

-or-

Right click the **Image Review Region** and select **Mode> Window Level** option from the **Pop Up**.

-or-

Click the **w key** in the keyboard.

Left click and drag the mouse pointer over the image.

4.1.6. View Hounsfield of image

To view the Hounsfield of the image

Click  button.

-or-

Right click the **Image Review Region**, select **Mode>Hounsfield** option from the Pop Up.

-or-

Click the **H key** in the keyboard.

Left click and drag the mouse pointer over the image to view the hounsfield of that image portion.

4.1.7. How to Draw?

This section describes the procedure to draw a line, arrow, rectangle or ellipse on the image.






How To?	Do this:
Draw a line on the image	1. Click  button. -or- Right click the Image Review Region and select Mode>Line from the Pop Up . -or- Click ' L key ' in the keyboard. 2. Left click and drag the mouse to draw a line on the image.
Draw an arrow on the image	1. Click  button. -or- Right click the Image Review Region and select Mode>Arrow from the Pop Up . -or- Click ' A key ' in the keyboard. 2. Left click and drag the mouse to draw an arrow on the image.
Draw a rectangle on the	1. Click  button. -or-

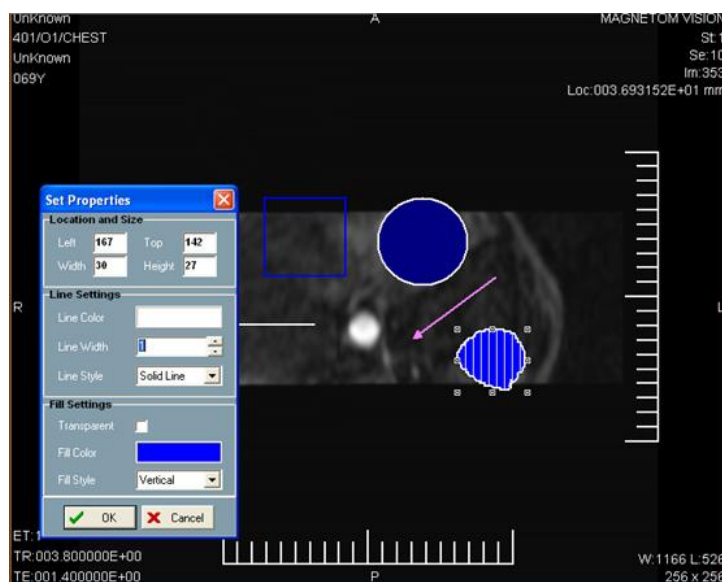


image	Right click the Image Review Region and select Mode>Rectangle from the Pop Up . -or- Click ' R key ' in the keyboard. 2. Left click and drag the mouse to define a rectangle.
Draw a circle or ellipse on the image	1. Click  button. -or- Right click the Image Review Region and select Mode>Ellipse from the Pop Up . -or- Click ' E key ' in the keyboard. 2. Left click and drag the mouse to define a circle or ellipse.
Draw a freehand line or shape	1. Click  button. 2. Left click and drag the mouse to define a freehand shape.

Note: To delete a specific annotation (line, arrow, rectangle, circle or text box) that you have marked on the image, select the required one and press "Delete Key" in the keyboard.

To delete all the annotations marked on the image, right click and select **Delete All Annotations**.

All the annotations (line, arrow, circle and rectangle) will appear in default line and fill settings. To change the default line and fill settings and to change the location and size of the image, double click the annotation. A **Properties Dialog** as shown below will open.



Specify the new location and size of the annotation. Then, change the required parameters like line color, line width, line style, fill color and fill style. Click on the **OK button** to save the settings.

Notes: To allow images to show through the background color of the annotation (circle, ellipse, rectangle, square and text box), select the Fill Style option in the Set Properties dialog as "**Clear**".

Refer to Annotation Settings for the default properties of the line, arrow, rectangle and ellipse drawn on the image.

4.1.8. Include text on the image

To include text on the image



1. Click **T** button or Right click the **Image Review Region** and select **Mode> Text option** from the **Pop Up**.

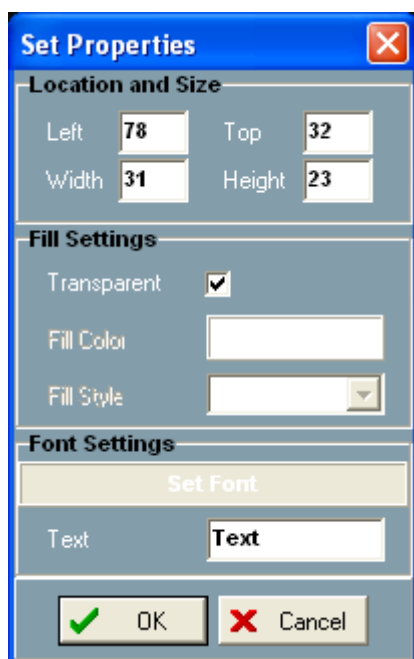
-or-

Click the **T key** in the keyboard.

2. Left click and drag the mouse from the desired point of start and end to define a text box of the desired size. You can move the text box to a desired position with the mouse if necessary, or you can change the size of the text box using one of grab tabs around the edge. Type the text in the text box and click the **Enter Key** or click the mouse pointer anywhere outside the text box.
3. You will notice that the text will appear in the default font settings. To change the font settings of the text, and the location and size of the text box, double click on the text box.

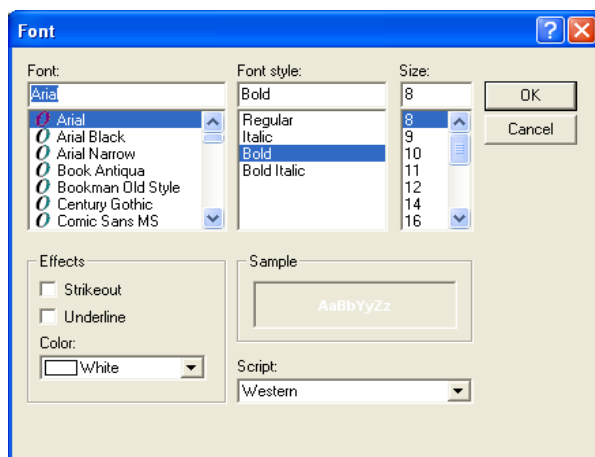
Refer to Annotation Settings to change the default font settings of the text tool.

4. A **Properties dialog** as shown below will open. Specify the new location and size of the text box.




The image shows a 'Set Properties' dialog box with a blue title bar and a red close button. It is divided into three sections: 'Location and Size', 'Fill Settings', and 'Font Settings'. The 'Location and Size' section has four input fields: 'Left' (78), 'Top' (32), 'Width' (31), and 'Height' (23). The 'Fill Settings' section has a 'Transparent' checkbox (checked), a 'Fill Color' text box, and a 'Fill Style' dropdown menu. The 'Font Settings' section has a 'Set Font' button, a 'Text' label, and a text box containing the word 'Text'. At the bottom are 'OK' and 'Cancel' buttons with green and red checkmarks respectively.

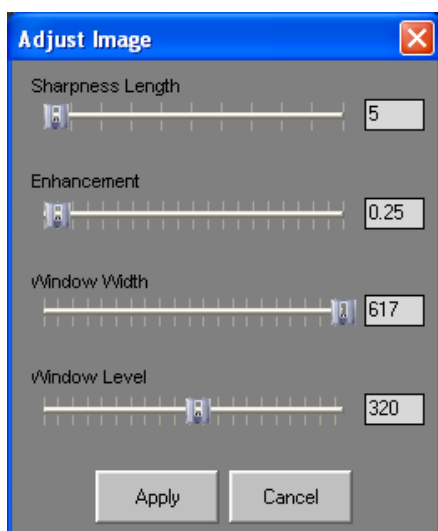
Then, click the **Set Font Tab** in the **Properties dialog**, which will be followed by a **Font Dialog** as shown below. Change the font name, style, size and color if required, and click on the **OK button**.



4.1.9. Adjust the Display Parameters of the image

This option of the CATELLA PACS 5.0 Web Viewer helps you to change the display parameters such as the sharpness, window width and level and the enhancement values of the image.

To do this, click the  button in the **Image Review window** or right click and select **Processing->Adjust Image** from the **Pop Up**. An **Adjust Image Dialog** as shown below will pop up on your screen as shown below. Next, change the required parameters and click **ok**.



4.1.10. Display/Hide Overlays on the image

To display/hide overlays like measurement scales, values, etc., on the image

Click  button.

-or-

Right click on the Image and select **Processing>Display Overlays** from the **Pop Up**.

4.1.11. Change Image per page

To increase the number of images displayed per page



Click  button.

-or-

Right click the **Image Review Region**, and select **Display** option from the **Pop Up**, and then click the appropriate option like “1x1” in the **Submenu**.

Note: Pressing the 1, 2, 3... keys in the keyboard will display appropriate number of images in the image review screen.

To decrease the number of images displayed per page

Click  button.

4.1.12. Send the selected image to a print composer

To send the selected image to a print composer

Right click the **Image Review Region** and select **Send to composer** option from the **Pop Up**.

-or-

Press F5 key in the keyboard.

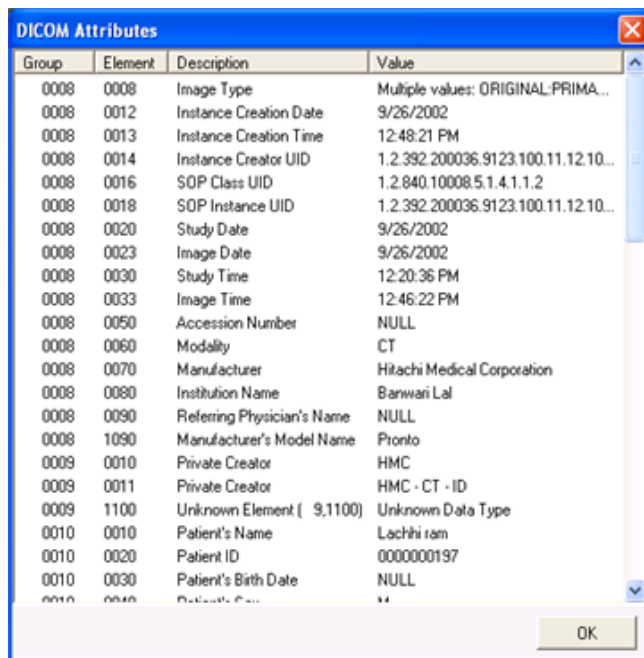


The Printer is to be configured before enabling this option.

4.1.13. View DICOM Attributes

To view the DICOM attributes of the selected image

1. Right click on the **Image Review Region** and select **Image Attributes** option from the **Pop Up**.
2. A **DICOM Attribute** dialog opens as shown below.



Group	Element	Description	Value
0008	0008	Image Type	Multiple values: ORIGINAL-PRIMA...
0008	0012	Instance Creation Date	9/26/2002
0008	0013	Instance Creation Time	12:48:21 PM
0008	0014	Instance Creator UID	1.2.392.200036.9123.100.11.12.10...
0008	0016	SOP Class UID	1.2.840.10008.5.1.4.1.1.2
0008	0018	SOP Instance UID	1.2.392.200036.9123.100.11.12.10...
0008	0020	Study Date	9/26/2002
0008	0023	Image Date	9/26/2002
0008	0030	Study Time	12:20:36 PM
0008	0033	Image Time	12:46:22 PM
0008	0050	Accession Number	NULL
0008	0060	Modality	CT
0008	0070	Manufacturer	Hitachi Medical Corporation
0008	0080	Institution Name	Banwari Lal
0008	0090	Referring Physician's Name	NULL
0008	1090	Manufacturer's Model Name	Pronto
0009	0010	Private Creator	HMC
0009	0011	Private Creator	HMC - CT - ID
0009	1100	Unknown Element (9,1100)	Unknown Data Type
0010	0010	Patient's Name	Lachhi ram
0010	0020	Patient ID	0000000197
0010	0030	Patient's Birth Date	NULL
0010	0040	Patient's Sex	M



3. Click the **OK Button** to continue.

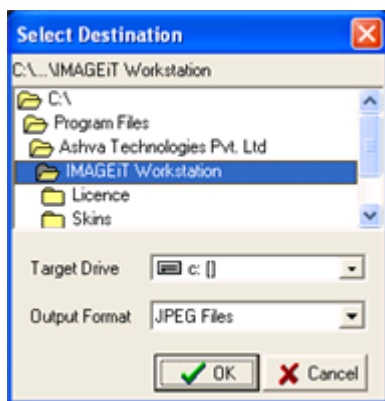
4.1.14. Export Image to desired storage location

To export the image to a desired storage location

1. Select the desired image in the **Image Review Region**.

2. Click  **Button**.

3. A **Select Destination Dialog** opens.

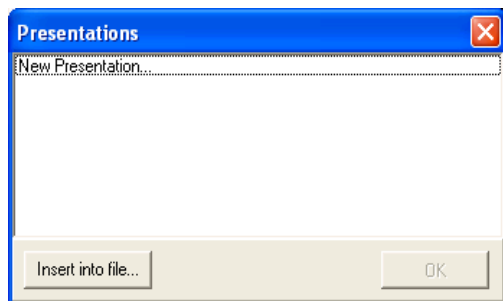


4. Select the Target Drive and Output Format, and Click on the **OK Button**.

4.1.15. Export Images as Powerpoint

To export the selected image to an existing Powerpoint presentation file or a new presentation file

1. Select the images right click and choose **Export images as PowerPoint**.
2. A **Presentation dialog** will appear.



3. Click on New Presentation to export the image to a New Presentation file.
4. To insert the image to an existing presentation, click Insert to File option. An Open dialog will be displayed. Select the file and click Open button.

Note: The option above will work only when Microsoft PowerPoint is installed in your system. If you close CATELLA PACS 5.0 Web Viewer before saving the PowerPoint presentation, then PowerPoint will be closed automatically.

4.1.16. Select All Images

This option is used to select all the images to add the images to the print composer window, to create avi and to send the images to the remote DICOM node.



To select all the images displayed in your **Image Review Window**,

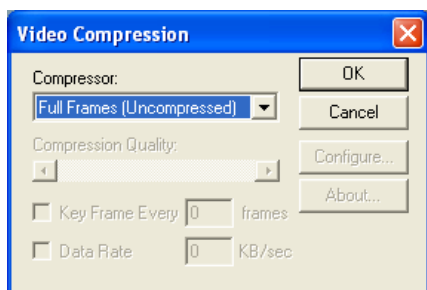
Right click on the image and choose **Select All** or press **Ctrl + A** keys in the keyboard.

Note: To select random images, press Ctrl key and select desired images using the mouse.

4.1.17. Create AVI file

This option allows you to create an avi file by merging the selected image series. To do this, right click the image and select **Create AVI File from Series** option. A **Save As Dialog** opens. Enter the file name and click ok.

Then, a Video Compression dialog as shown below will open. Select the compression type and click **OK**.




Note:

1. The avi can be created only when the images are of the same size.
2. The file size and quality of the avi depends on the compression selected. The Microsoft MPEG-4 Video Codec is the recommended compression type.

4.1.18. Send Image to Remote Node


This option enables you to send all the selected images to the selected remote DICOM node. To



do this, click on the  in the **Archival Screen** and then select the desired remote node or right click on the selected the image(s) and choose Send to Remote Node and then select the desired remote node..

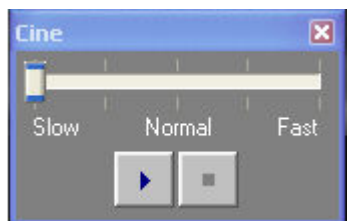
Please note:

All the nodes that the administrator has added using the Server Application will be listed out here.

4.1.19. Play Frames

To play all the frames of the selected series in a loop, click  button and a **Cine dialog pops up**.


Now, select the playing speed as slow, normal or fast. And, then click the **Play button** . To stop the playing, click the **Stop button** .





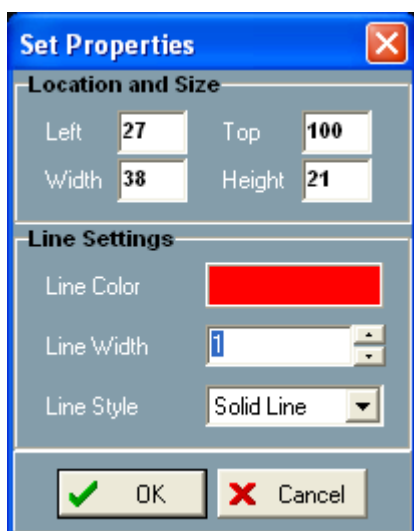
4.1.20. Linear Measurement

The Linear Measurement Functionality of the **CATELLA PACS 5.0 Web Viewer Software** helps you to measure the length of the desired part of the image in mm.

To do this, click  button in the Image Review Window and drag the mouse to draw a line from the desired point of start and end on the image. You will notice a line with its length displayed on the image as shown below.

Please note the measurement details will appear in the default color and font. *Refer Annotation settings in page 43 to set the default measurement settings.*


To change the default line color settings and the location of the measurement line, double click the measurement line. A **Set Properties dialog** as shown below will open.



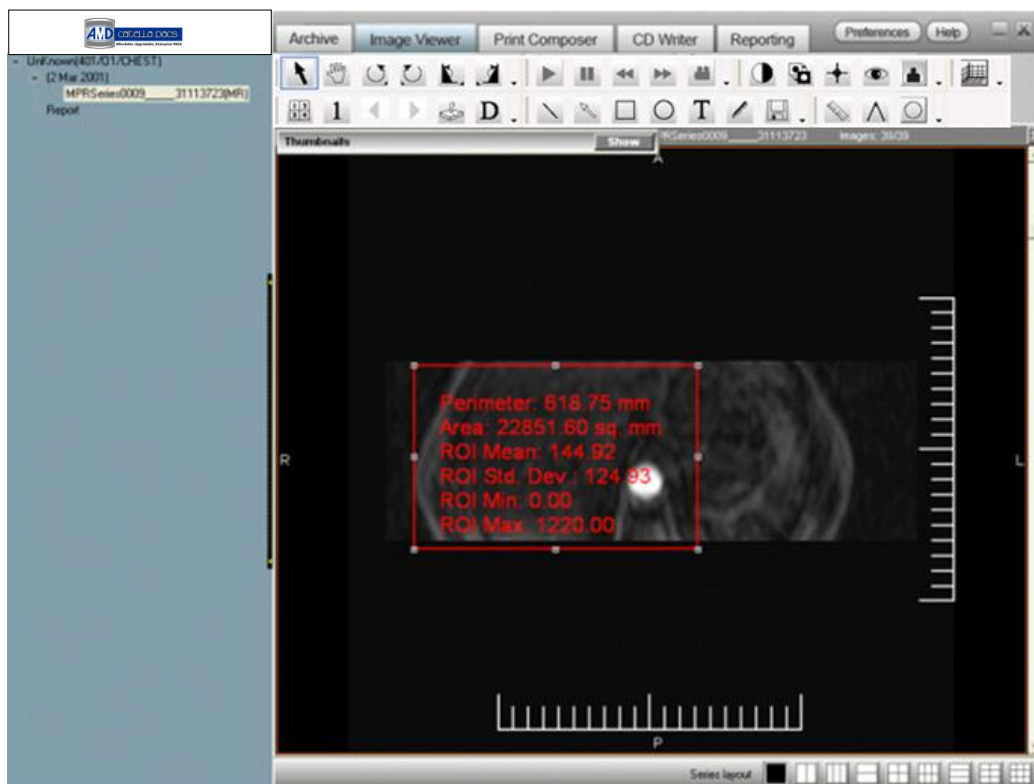
Specify the left (X) and top (Y) positions, width and height of the measurement line, and then select the line color and line style. Finally, click **OK**.

4.1.21. Area Measurements

The Area Measurement Functionality of the **CATELLA PACS 5.0 Web Viewer Software** helps you to measure the area, perimeter, mean, min, max and standard deviation of the required Region Of Interest (ROI).

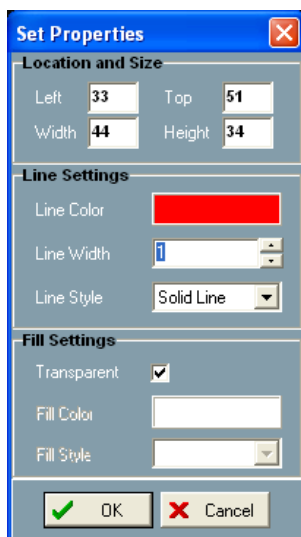
To do this, click  button in the **Image Review Window** and drag the mouse to define a square or rectangle of the required size. You will notice a rectangle with all angular measurement values (like area, perimeter, ROI mean, etc.) displayed on the image as shown below.

Please note the ROI details will be displayed on the image only if the Display **ROI Information for Areas Option** in the **General I Settings Dialog** is enabled. *Refer General Settings in page 39 to enable this option.*



Note: The measurement details will appear in the default color and font. [Refer Annotation settings in 43](#) to set the default measurement settings.

To change the default line and fill color settings and the location of the measurement Area, double click the measurement rectangle. A **Set Properties dialog** as shown below will open.



Specify the left (X) and top (Y) positions, width and height of the measurement rectangle.

Then, select the line color, line width and line style, and also the fill color and fill style of the rectangle.

Check the **Transparent Box**, if you wish the image to see through the background color of the measurement rectangle.




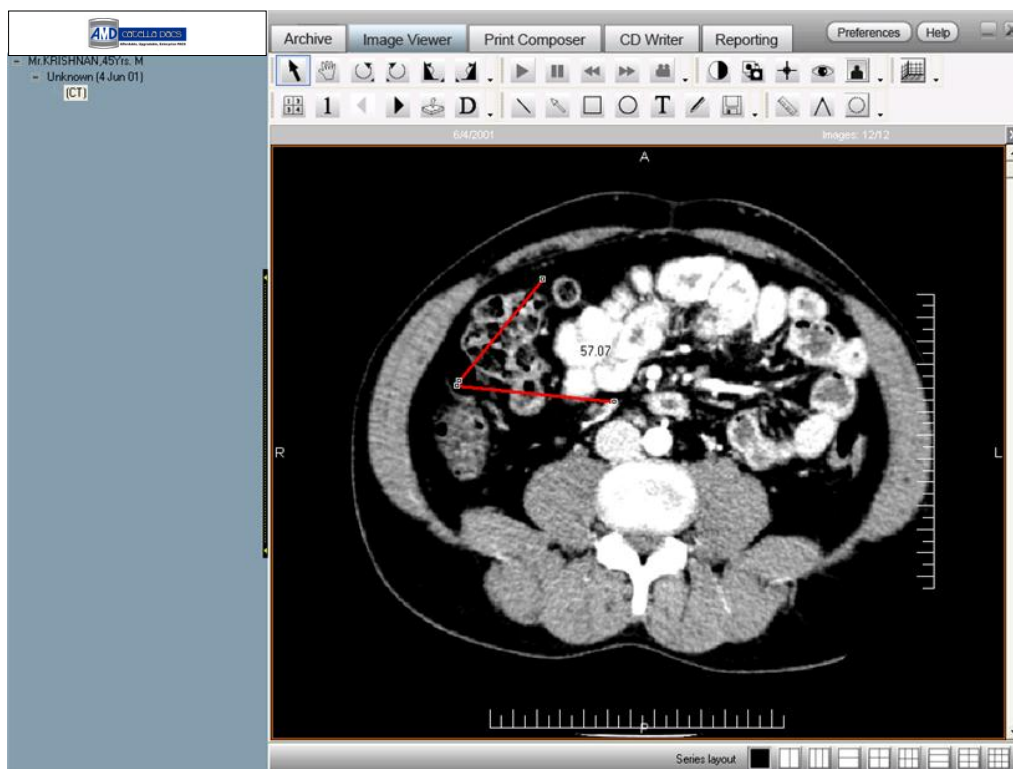
Finally, click **OK**.

4.1.22. Angular Measurements

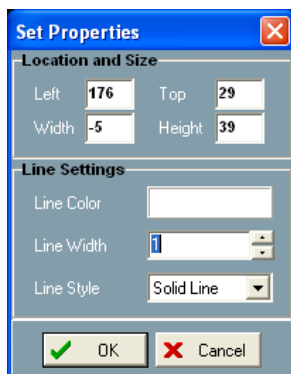
The Angular Measurement Functionality of the **CATELLA PACS 5.0 Web Viewer Software** helps you to measure the angle between different points of the image.

Please note, only the angle between 0 – 180 degrees can be measured.

To do this, click  button in the **Image Review Window** or right click on the image and select **Mode>Angular Measurement**. Drag the mouse on the image to define a base line, and then click at the end of the base line and drag the mouse to a desired point. You will notice the angle defined between the two lines being displayed on the image as shown below.



Please note the measurement details will appear in the default color and font. [Refer Annotation settings on page 43 to set the default measurement settings](#). To change the default line and fill color settings and the location of the lines, double click the line. A **Set Properties** dialog as shown below will open.





Specify the left (X) and top (Y) positions, width and height of the measurement rectangle.

Then, select the line color, line width and line style. Finally, click **OK**.

4.1.23. Apply Window Level Presets

This feature of the CATELLA PACS 5.0 Web Viewer Application helps you to apply predefined Window level presets to the selected image.

To do this,

Right click the image and select appropriate preset name from the **Pop up**. You will notice that the window width and level of the image being adjusted based on the selected preset.

Please note that all the presets corresponding to the modality to which selected image belongs to will be listed out in the Popup. Refer Modality Settings for adding or editing the presets.

4.1.24. Mark key Image




This option of the viewer helps you to mark the important images of the currently opened series as key image (for future reference, report preparation, etc). To do this, select the required image in the Image Review Window and right click and choose Mark as Key Image.

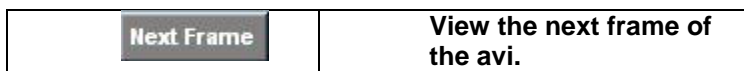
Note: Clicking on the **Open Key Image button** in the **Archival Screen**, lists all the key images that you marked in the **Archival Screen**.

4.1.25. Digital Subtraction Angiography (DSA)

This option helps to apply mask for the Digital Subtraction Angiography (DSA) images (DICOM Avi) thereby reducing noise in DSA images without increasing the total dose. To do this, right click on the DICOM Avi that you have loaded in the Image Review Window and choose DSA. A DSA Dialog displaying the selected AVI opens as shown below.



Button	Click To:
	Play the DICOM avi.
	Stop the playing avi.
	View the previous frame of the avi.



Enable the Apply Mask Option and adjust the slide bar to reduce the noise level in the DSA image.



4.1.26. Sync Series

This feature of the CATELLA PACS 5.0 Web Viewer Application helps you to review the normal image series and the dark fluid image series corresponding to a patient simultaneously.

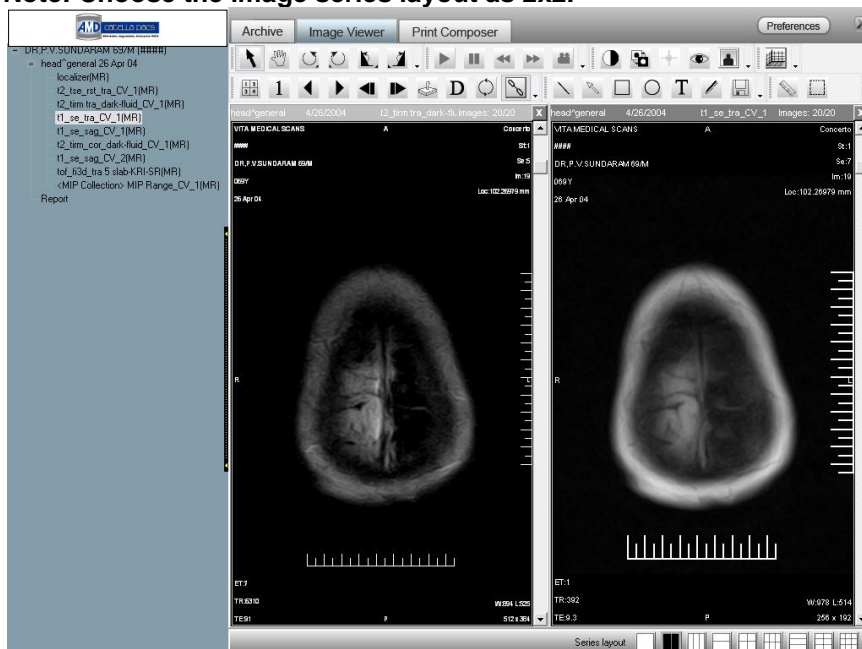
To do this,

Load the desired normal image series of the selected study to the image viewer window of CATELLA PACS 5.0 Web Viewer Application. Then, select the appropriate image that you



would like to review and click on the button. You will notice that the dark fluid image corresponding to the selected normal image being displayed on the image review window as shown below.

Note: Choose the image series layout as 2x2.





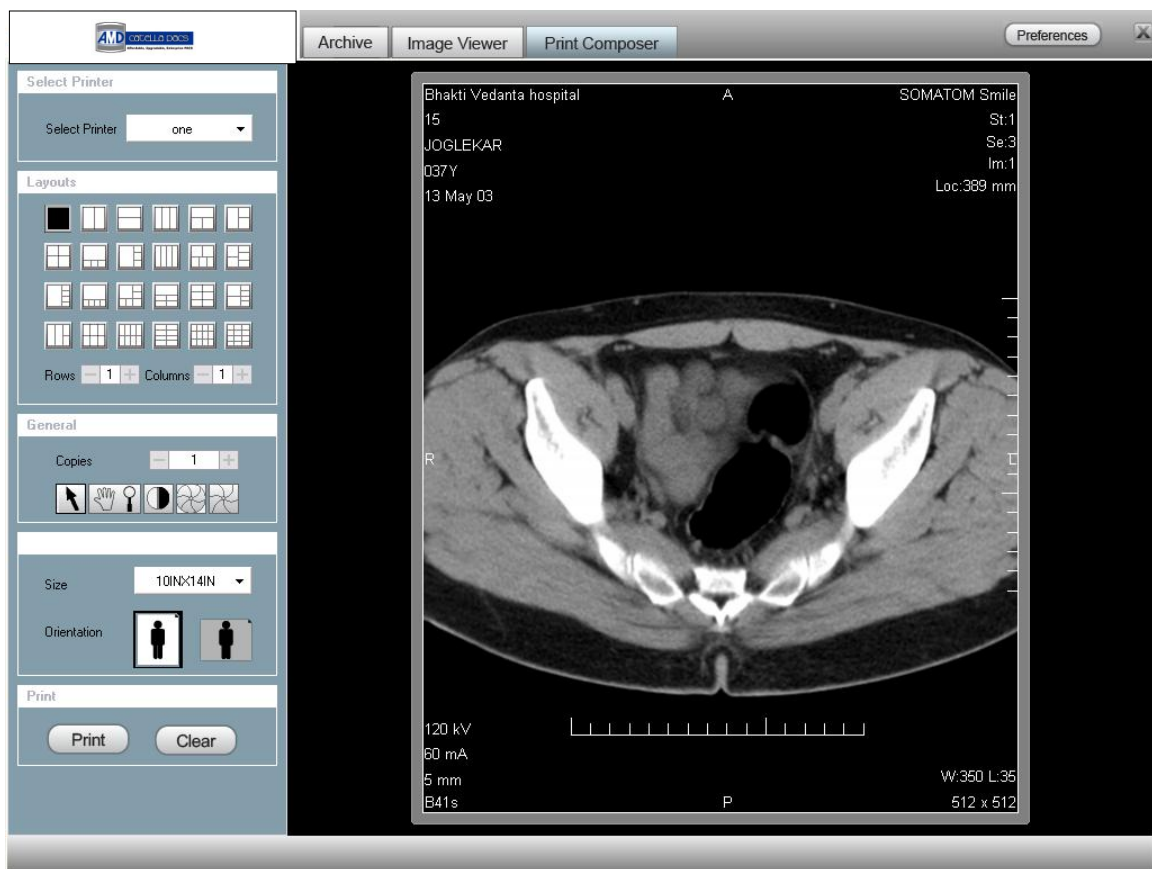
Chapter 5: Print Composer

CATELLA PACS 5.0 Web Viewer offers you the functionality to print all the selected images in the desired print layout using a DICOM printer or any other network printer.

5.1. Print Composer Overview


To print the selected images

Click on the **Print Composer tab** in the main screen. The images of the selected study that you have added using the **Send to Print Composer option** in the **Image Review Screen** will appear on the **Print Composer Window** will be displayed in the default print layout as shown below. [Refer page 25 for sending images to the Print Composer.](#)



The names of all the DICOM Printers or the Network printers connected to your machine will be listed out in the **Select Printer combo box**. Select the appropriate printer name.

Please note: The print layout changes depending on the default print layout set for the selected printer.

Now, select the print layout that indicates how many images to print on a single sheet. For example, selecting the  option helps you to print two images on one sheet of paper.

You can also design your own print layout by selecting the required number of rows and columns using the **Rows/Columns Option**.

Right clicking and selecting **Split Vertically/Horizontally** from **Popup** can split the selected cell accordingly.




To merge the adjacent cells (right, left, upper and lower cells), right click and select **Merge with Right/Left/Upper/Lower Cells** from the **Pop Up** as shown below.





You can import required DICOM images to empty cells of the print composer window, by right clicking and selecting **Import DICOM File**. A **Browse For Folder Dialog** will pop up on your screen. Then, locate the desired DICOM Files and click **OK**.



Right clicking and selecting **Remove DICOM File** will remove the DICOM image from the particular cell.

Select the number of copies you want to print.

If required, you can zoom in or out the images in the desired cells of **the Print Layout Window** by clicking on this  button and left clicking and dragging the mouse over the image.

To pan the zoomed image, right click and drag the mouse over the image with the  button being selected.

You can change the window level of the selected image by clicking on this  button and left clicking and dragging the mouse over the image.

To print only a certain circular or rectangular area of the image, click on these   **Shutter buttons** respectively and drag the mouse over the image. You will notice only the image area that you have defined being displayed as shown below.

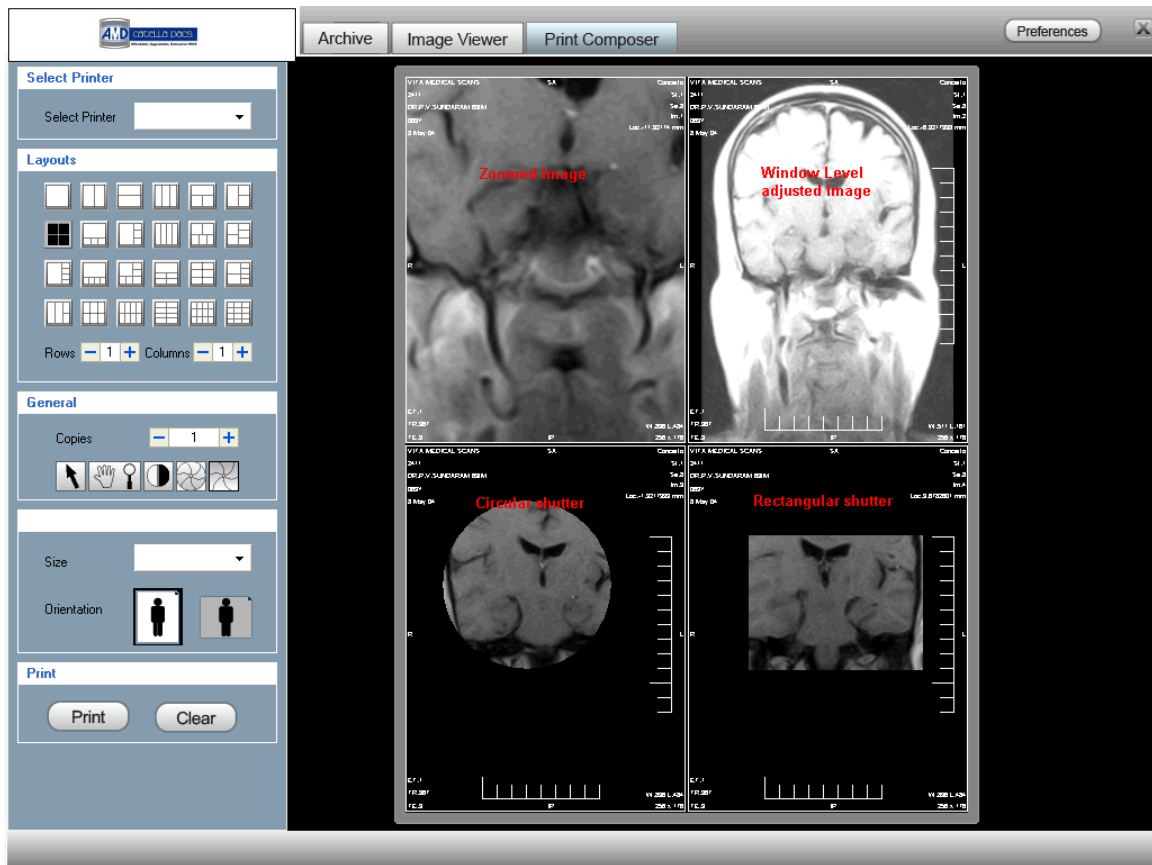
Please note:



To remove the shutter (i.e., to view the entire image), right click the image and select **Remove Shutter**.



Click button to get the mouse pointer or to deselect selected button (zoom and pan button, window level button and shutter button).



Now, select the paper size on which you want to print the images, and then select the paper orientation either as Portrait or Landscape.

After carrying out the required print settings, click on the **Print Button** to print the images.

Note:

1. Orientation indicates how the document is positioned on the page. Portrait orients the print vertically, while landscape orients the print horizontally.
2. As there is no print preview option, ensure that you have selected the correct images before the printing operation. You can use the Clear Button to clear all the images in the Print Composer Window.

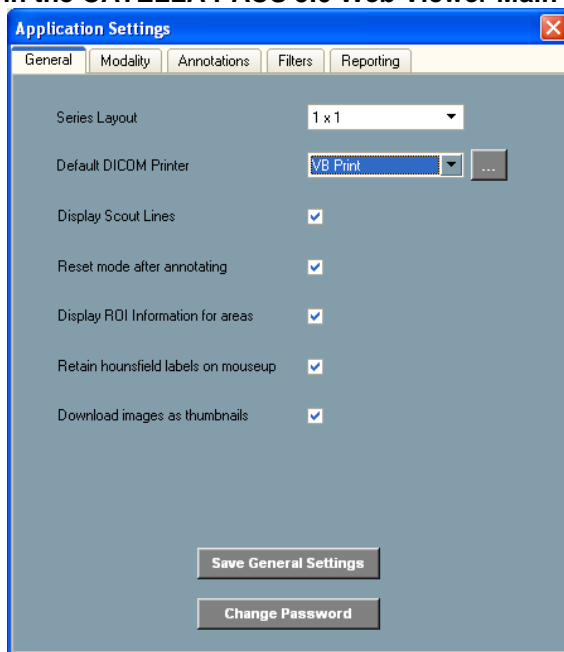


Chapter 6: Preference/Settings

Once CATELLA PACS 5.0 Web Viewer is installed you have to set the General, Modality, Annotation, Filter and Report settings before you start working with the CATELLA PACS 5.0 Web Viewer application. This chapter describes each of the settings in detail.

6.1. General Settings

This functionality allows you to set various general settings like the default series layout for the image review window, default DICOM printer, etc. On clicking the Preference Button in the CATELLA PACS 5.0 Web Viewer Main Screen, an Application Settings Dialog opens.




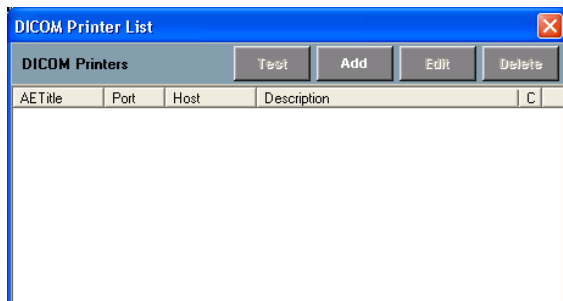
The fields in the General Settings Dialog and their descriptions are listed below.


Fields	Descriptions
Series Layout	Select the default series layout for the image review window.
Default DICOM Printer	Select the default DICOM printer. Please note that all the DICOM printers added using the CATELLA PACS 5.0 Web Application will be listed here. Refer section 6.1.1 to know how to add a printer.
Display Scout Lines	Enable this option to display the scout lines on the DICOM Image.
Reset mode after annotating	Enabling this option will deselect the annotation tool immediately after the annotation process.
Display ROI information for areas	Check this to view the information like perimeter, area, mean, etc. of the Region of Interest (ROI) of the image while using area measurement option.
Retain Hounsfield labels on mouse up	Selecting this will display the Hounsfield labels on the image.
Download images as thumbnails	Selecting this will display the representative thumbnails of the images.
Save General Settings	Once you have selected the appropriate options, click on this button to save the settings.
Change Password	This is used to change the password for the user or



6.1.1 To add a new DICOM Printer

1. Click on the  button in the General settings ,next to the Default Dicom Printer combo box.
2. A DICOM Printer list Dialog opens as shown below.



1. Click on the  button in the DICOM Printer Frame of the DICOM Printer List Dialog.
2. A DICOM Printer Settings Dialog opens

3. Specify the Application Entity (AE) Title, Hostname, Port and Description of the DICOM Printer in the corresponding edit boxes.
4. Then, select the default orientation, destination, film size, magnification and print layout for the DICOM Printer.
6. Select the priority, medium, and number of copies, and click on the **OK Button**.

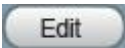
Note:

The Application Entity Title, Hostname, Port number, Orientation and Film Size fields are mandatory.



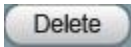
Once you have added a new DICOM printer, click on the  button to check whether the connection with that DICOM printer is successful or not.

6.1.2 To edit the DICOM Printer settings

1. Select the DICOM printer that you wish to edit from the list.
2. Click on the  button in the DICOM Printer Frame of the DICOM Printer List Dialog.
3. The DICOM Printer Settings dialog opens. Make the necessary changes and click on the **OK Button**.

Note: The AE Title Name is restricted from editing.

6.1.3 To delete the DICOM Printer

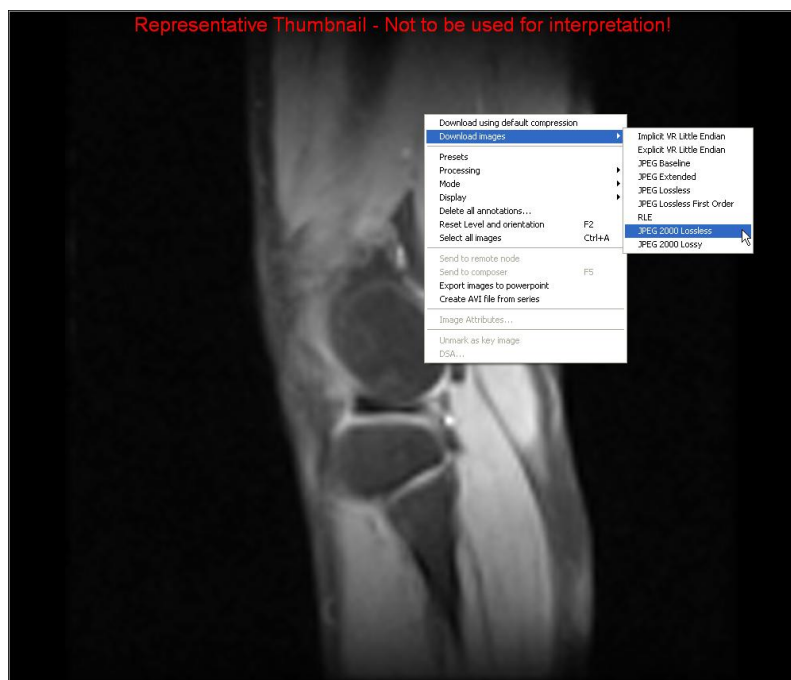
Select the DICOM printer to be deleted from the displayed list. Click on the  button in the DICOM Printers Frame. A Confirm Dialog opens. Click on the OK Button to continue.

6.1.4 To download the images as thumbnails.

Select the option 'Download images as Thumbnails ' in the General settings in the Preferences. The images will be downloaded as thumbnails as shown below.



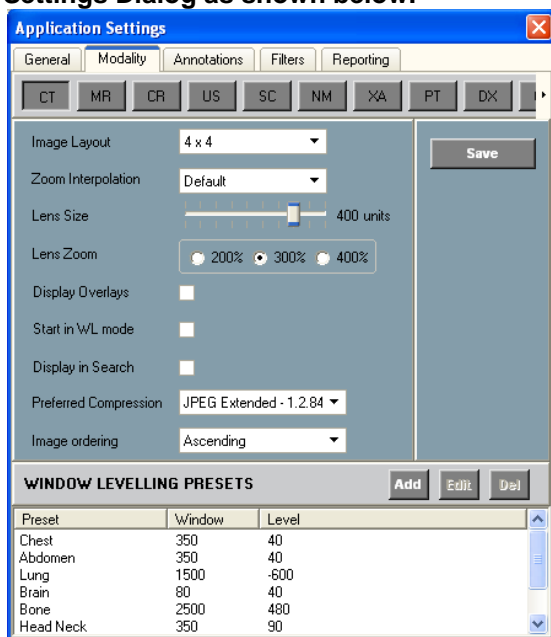
If you wish to download the selected images , right click on the mouse and select the option to either download using default compression or download images using any one of the listed compressions in the context menu.



Note: This functionality is only available with the CatellaDcmServer.exe version 2.2.1.245.

6.2. Modality Settings

This functionality enables you to set the image layout, zoom interpolation, image attribute display condition, and window leveling presets for each of the modalities like CR, CT, MR, etc. On clicking the Modality Settings Tab in the CATELLA PACS 5.0 Web Viewer Application Settings Dialog, a Modality Settings Options appears in the Application Settings Dialog as shown below.



The primary elements in the Modality Settings Dialog are listed below.


Fields	Descriptions
--------	--------------



Image Layout	Select the default series layout for the selected modality.
Zoom interpolation	Select the zoom interpolation for the selected modality.
Lens Size	Select the size of the zooming lens in the image review window for the modality selected.
Lens Zoom Level	Select the zoom percentage of the zoom tool in the image review window for the chosen modality.
Display Overlays	Select this option to display image attributes.
Display in Search	Checking this displays the modality in the Search Screen, thus helping you to query the studies corresponding to the modality using the search option.
Image Ordering	Displays the images of the series in ascending or descending order of their slice number.
Add	To add window level presets for the selected modality.
Edit	To edit the selected window level preset.
Delete	To delete the selected window level preset.
Save	To save the settings.
Start in WL mode	The dicom images should be displayed with the default window level presets.
Preferred Compression	Option to select the compression mode


6.2.1. How to Add/Edit/Delete Presets?

To add Window level presets

1. Select the modality for which the preset is applicable. Click  button in the **Modality Settings Dialog**.
2. A **Presets Dialog** opens. Specify the Preset Name and the Window width and Level. Then, click **OK button**.




To edit Window level preset

1. Select the modality and then select desired preset name from the displayed list of presets. Click on the  button in the **Modality Settings Dialog**.
2. The **Presets Dialog** opens. Make the required changes in the Window width and Level, and click on the **OK Button**.



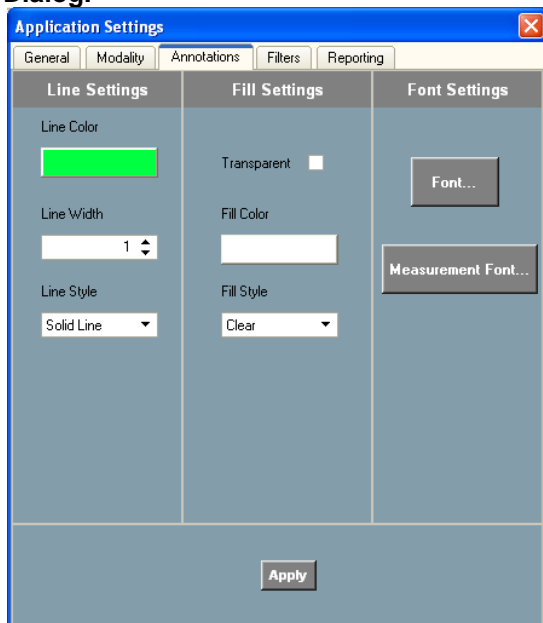
The Preset Name is restricted from editing.

**To delete Window level presets**

1. Select the modality and then select desired preset name from the displayed list of presets.
2. Click  button. A **Confirm Dialog** opens. Click on the **OK Button** to continue.

6.3. Annotation Settings

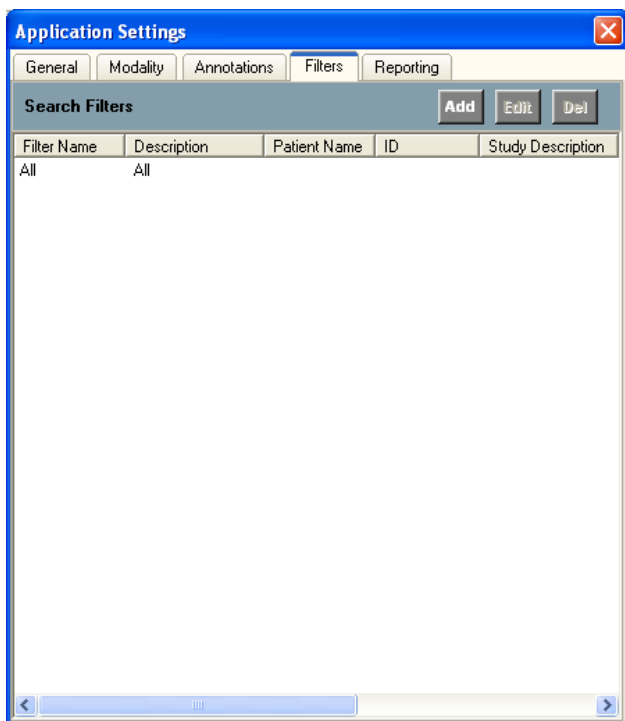
This functionality enables you to set the properties of the annotation options (like line, arrow, rectangle, ellipse or circle, and the text marked on the image.) On clicking the **Annotation** tab in the **CATELLA PACS 5.0 Web Viewer Application Setting Dialog**, the option to change the line, fill and font settings will be displayed in the **Application Settings Dialog**.



Fields	Descriptions
Line Color	Select the default color of the line to be drawn on the image.
Line Width	To select width of line drawn on the image. Range should be from 1 to 5 units.
Line Style	To select the line style.
Transparent	To make the fill color transparent.
Fill color	To set the fill color for the rectangle and ellipse drawn on the image.
Fill Style	To set the fill style for the rectangle and ellipse drawn on the image. Note: To allow the images to see through the background of the annotation, set the fill style as Clear.
Font	To set the default font for the text included on the image.
Measurement Font	To set the font for the measurement tool.
Apply	To Save the settings.

6.4. Filter Settings

This functionality enables you to carry out the search filter settings. On clicking the **Filter** Tab in the **Application Settings Dialog**, the options to add, edit and delete the search filters will appear in the **Application Settings Dialog** as shown below.



To Add Search Filter Settings

On clicking the **Add** button in the Filter Settings Dialog, a Search Filter Dialog as shown below opens. Specify the filter name and other required details and click on the OK button.

Filters

Filter Name: All

Filter Description: All

Patient Name:

Patient ID:

Study Desc:

Sex: ☐ M ☐ F ☐ O

Modality: CT

Study Date Span: ALL

Accession Number:

Query Source: Local Archive

Set As Default: ☒

Apply Cancel


The table below gives a quick overview of the fields in the Search Filter dialog.

Fields	Descriptions
Filter Name	Specifies the filter name. This field is mandatory.
Filter Descriptions	Enter the filter description. This field is mandatory.
Patient Name	Specify Patient Name. Note: To get the details of all patients, leave the field blank



	or type * in the field.
Patient ID	Specify patient ID. Note: To get the details of all patients, leave the field blank or type * in the field.
Sex	Select the patient's sex.
Modality	Choose the modality.
Study date span	Select study date span as today, yesterday, last week, or last month.
Accession number	Specify the accession number.
Query Type	Lists the default query source for the filter.
Set as default	Select this checkbox to set the filter as a default filter.


To edit Filter

1. Select the desired Filter name from listed filter names.
2. Click  button in the Filter Settings Dialog.
3. A Search Filter Dialog opens.
4. Make the necessary changes and click on the **OK Button**.



The Filter name is restricted from editing.

To delete Filter

1. Select the desired Filter name from the list.
2. Click on the  button in the **Filter Settings Dialog**.
 3. A **Confirm Dialog** opens. Click on the **OK Button** to continue.



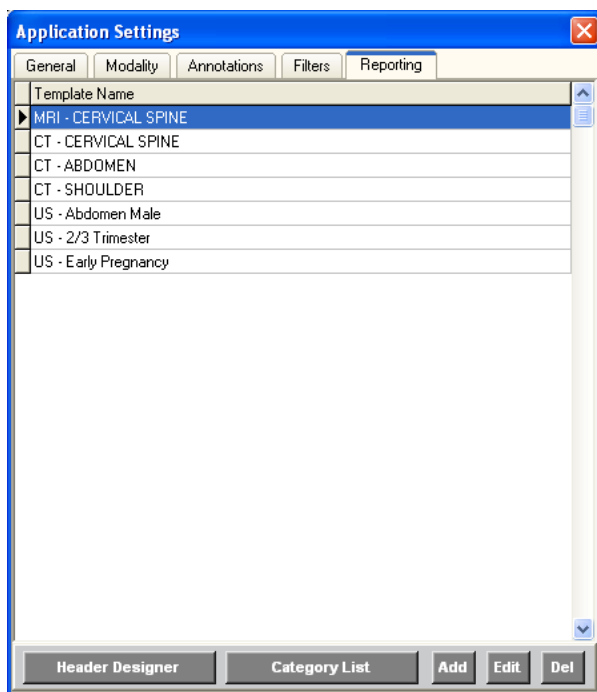
Chapter 7: Report Designer

The chapter gives you a detailed description on how to design a Report Header and Report Templates for various studies, how to carry out report settings and how to prepare a report for the selected study.

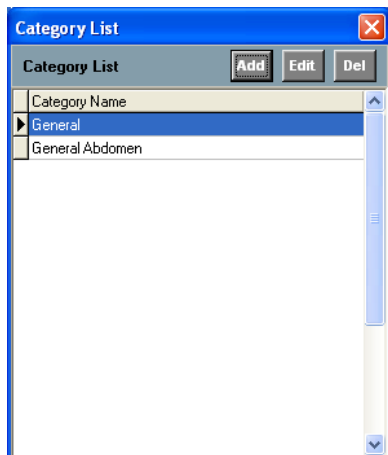
7.1. Categorize Report Templates

This option of the **CATELLA PACS 5.0 Web Viewer Application** helps you to categorize the report templates. To do this,

Click on the **Preferences** button in the **CATELLA PACS 5.0 Web Viewer Screen** and choose the **Reporting Tab** in the **Application Settings dialog**. An **Application Setting Dialog** displaying all the predefined report templates opens.



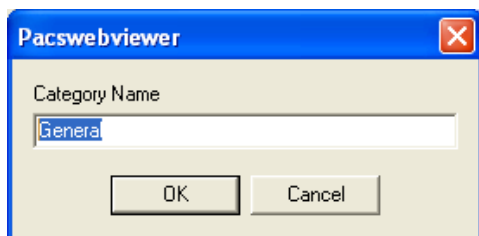
Now, to add a new report template category click on the **Category List button** in the **Application Settings dialog**. A **Category List Dialog** as shown below opens.





Click on the **Add button** in the **Category List Dialog** and enter the category name in the dialog shown below.

To edit the category name, select the required name from the **Category List Dialog** and make the required changes in the category name.

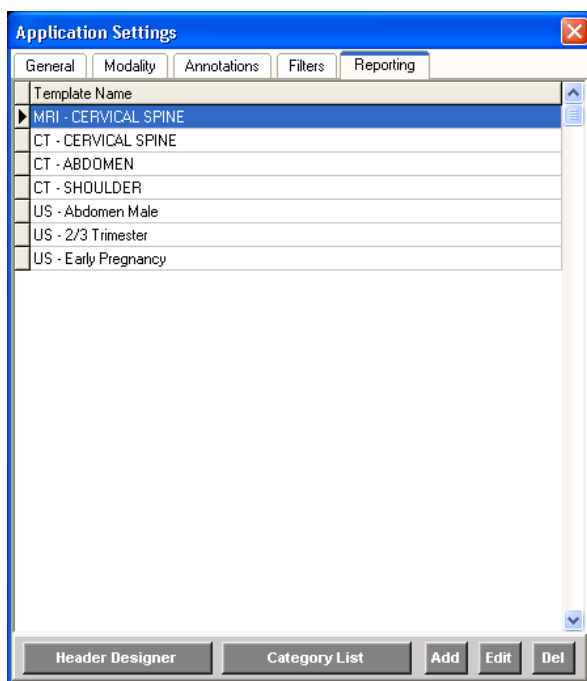


Clicking on the **Delete button**, deletes the selected category name from the list.

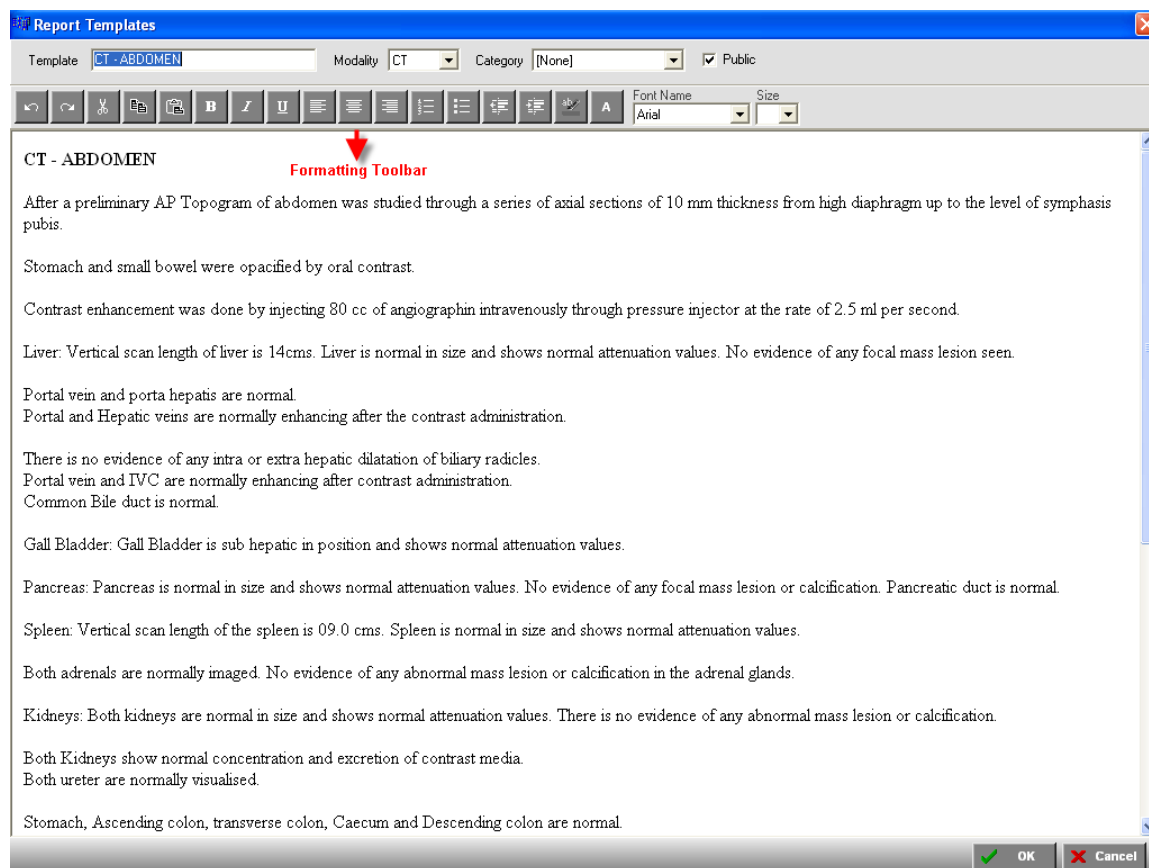
7.2. Design Report Template

To design a new report template,

Click on the **Preferences** button in the **CATELLA PACS 5.0 Web Viewer Screen** and choose the **Reporting Tab** in the **Application Settings Dialog** shown below. A dialog displaying all the predefined report templates will be displayed as shown below.



Click on the **Add button** in the **Reporting Dialog** shown in the previous page, which will be followed by a screen as shown below.



Enter the Template name and select the modality, which corresponds to the Report Template.

If you want the report template to be visible to all users check the “Public” checkbox.

Then, type in the necessary report details and change the font settings of the text using the **Formatting Toolbar** (if required).

Once you are done with the report preparation, click on the **OK button** to save the report Template.

To Edit the report Template,

Double click the desired report template name or select the Report Template name and click on the **Edit button** in the **Reporting Dialog** shown in page 55.

Make the required changes in the report template. Then, click on the **ok button** to save the changes.

To delete the selected report template,

Click on the **Delete button**.

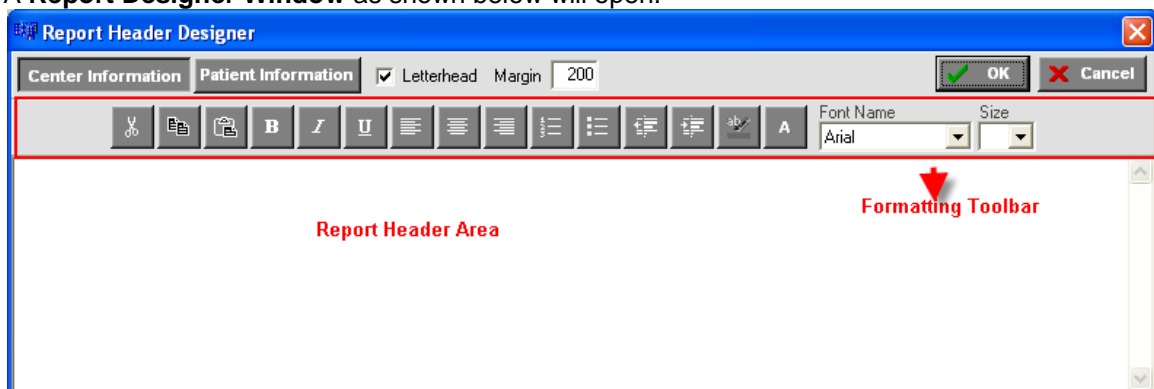
7.3. How to design a new Report Header?

To design a new report header

Click on the **Header Designer button** in the **Reporting Dialog** shown in the page 55.



A **Report Designer Window** as shown below will open.



To include center information, click on the **Center Information Tab**.

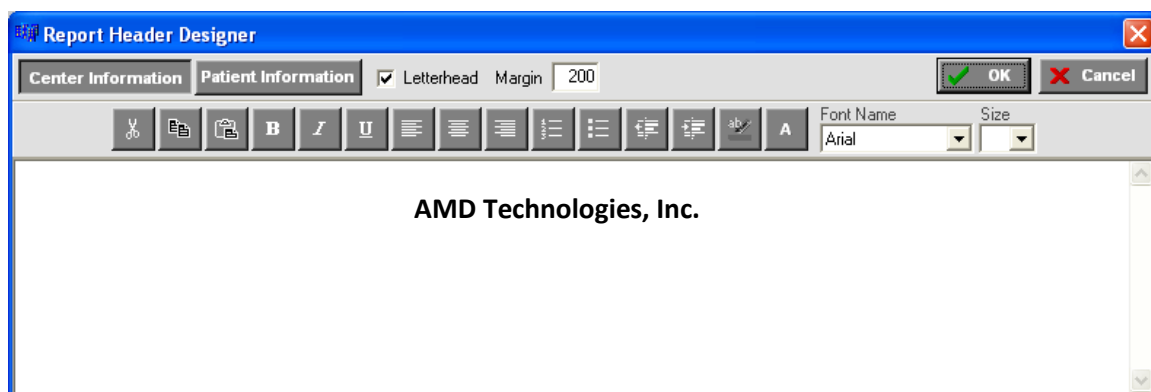
If the letterhead is to be included in the Report, select the **Use Letterhead check box** and enter the top margin value.

Notes: The top margin value indicates the space between the top of the page and the patient information grid. The top margin value is in pixels (not in cm or inches).

Otherwise, type in the required details. You can change the format of the text such as font, indent position, alignment, etc., in the **Reporting Region** using the formatting toolbar.

Note:

1. **Pressing** the Enter key in the keyboard will result in double line spacing between the text lines. Use Shift + Enter keys in the keyboard for single line spacing between the text lines.
2. The **font** size available in the Report Master does not correspond to other window applications. Here 1=8 pt, 2=10 pt, 3=12 pt, 4=14 pt, 5=18 pt, 6=24 pt, 7=36 pt.
3. If **tables** or a logo are to be included in the report, then create the same in MS Word/MS FrontPage and copy and paste it in the report.



To include the Patient information, click the **Patient Information button** in the **Report Header Designer Dialog** and type the required details. Then, place the cursor in the required location of the **Report Header area**, select the required fields from the **Field drop down list** and click on the **Add button**.

Say for example, if you like to include the "Patient ID" in the Patient Information Grid of the Report, click at the position where you want the patient id to be displayed in the Report header, and then select **ID** from the **Field Drop Down box** and click the **Add button**.



Note: If you want to include a table in the Report Header area, create the same in the Microsoft Word or FrontPage and copy-paste it in the Report.

The Report Header Designer dialog box is shown with the 'Patient Information' tab selected. It contains a table with the following data:

Patient Name	~PatientName~	Patient ID	~PatientID~
Study Date	~StudyDate~	Study Description	~StudyDescription~

The dialog also includes a 'Field' dropdown, an 'Add' button, and a 'Font Name' dropdown set to 'Arial'.

Click on the **ok Button** and specify the Report Template Name.

7.4. Reporting Procedure

This functionality of CATELLA PACS 5.0 Web Viewer enables you to create a Report for the selected study using preset report templates. A Reporting Screen as shown below appears on clicking the Report option in the Study Information Display Region in the Image Viewer Screen. Please note that the reporting functionality is available only for the studies in the local archive.

The Reporting Screen interface is shown with the 'Image Viewer' tab selected. The 'Thumbnail Display Region' is visible. A red arrow points to the 'Formatting Toolbar' located below the thumbnail display region. The 'Reporting Area' is the large white space below the toolbar. The interface includes a 'Series' dropdown, 'New Report', 'Template', 'Print', 'Save Report', and 'Finalize Report' buttons. The 'Format Name' dropdown is set to 'Arial'.

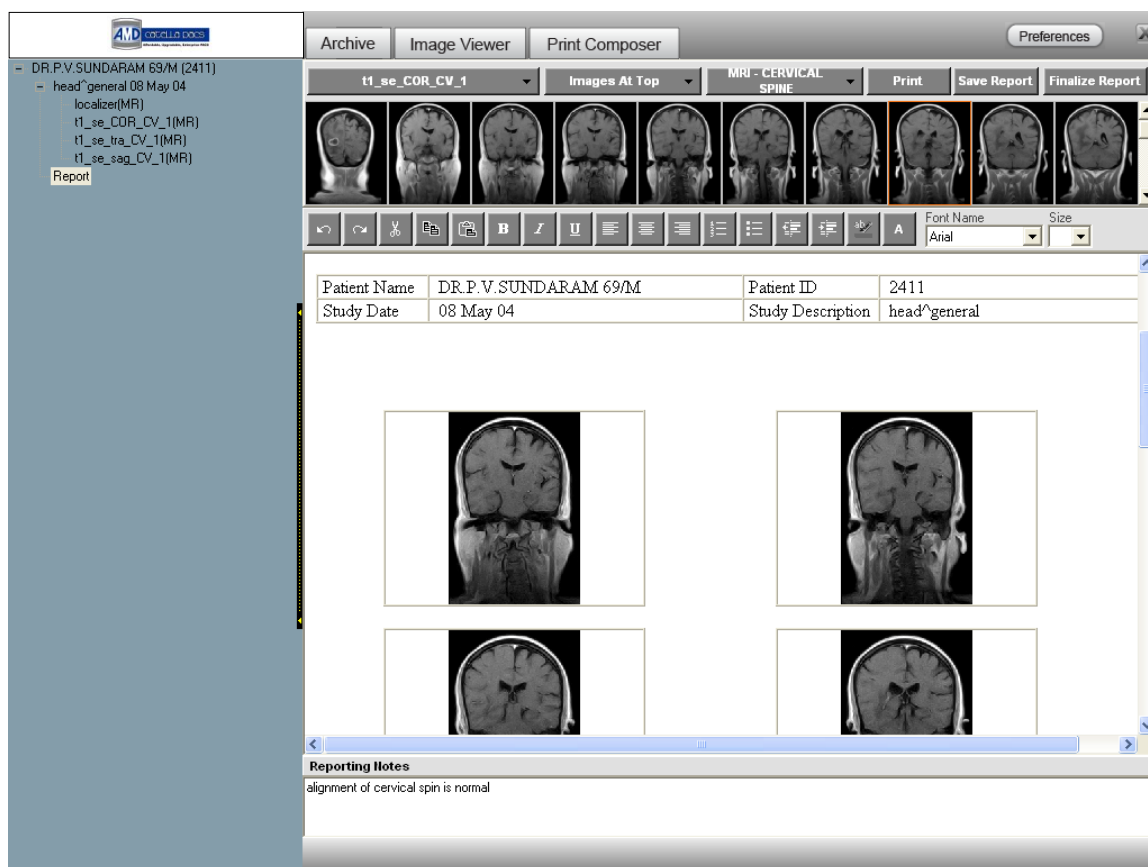
The reporting screen comprises fields as listed below.



Fields	Description
Series	Select the image series for which a report has to be prepared.
Report Layout	Select a report layout type.
Template	Select a predefined template Name.
Print	Print the report
Save Report	To save the report
Finalize Report	Click this button if do not want to make further changes in the report

To Prepare a Report,

Select the desired Report Layout from the **Layout combo box**. The report layouts available are Report only, Report with images at side and top, and only images (1, 2, 4, 6,...per page). The report layout including the predefined Report Header will be displayed in the **Reporting Area** as shown below.



Refer Design Report Header on page 50 for details.

The Predefined Report Templates corresponding to the selected study will be listed out in the **Template combo box**. Select the appropriate report template. The contents corresponding to the selected template will be listed out in the **Reporting Area**. Make the required changes in the report using the formatting toolbar.

Note: The font size available in the Reporting Region does not correspond to other windows applications. Here, 1=8 pt, 2=10 pt, 3=12 pt, 4=14 pt, 5=18 pt, 6=24 pt, 7=36 pt.



Refer Design Report Template for details.

The image series available for the selected patient will be listed out in the **Series combo box**. Select the required series. The Thumbnails corresponding to the selected series will be displayed in the **Thumbnail Display Region** as shown below. Double click on the image to add the image to the report. Finally, click on the **Save button** to save the report.

End of the Document